

## ABSTRACT OF THE DISCLOSURE

### EYE GAZE CONTROL OF DYNAMIC INFORMATION PRESENTATION

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10 A hands-free system uses eye gaze information from an  
eye gaze tracking device to continuously control the rate  
and direction of scrollable information presented on a  
display in a natural manner. Initially, images begin  
scrolling on the display at an initial rate. An eye tracking  
device is used to determine the area on the display that the  
user is gazing. If the gaze remains fixed near an anchor  
position, this indicates that the images are scrolling at a  
15 comfortable speed for the user to read the information.  
However, if the gaze begins to drift towards the side of the  
display where information is appearing, the scroll rate is  
increased since this indicates that the text is scrolling  
too slowly. Conversely, if the user's gaze is detected to  
20 move toward the side of the screen where information is  
disappearing, the scroll rate is decreased since this  
indicates that the user is falling behind. If the user's  
gaze gets too close to the side of the screen where  
information is disappearing the scroll direction may be  
25 reversed.